
From: O'Connor, David A. <David.OConnor@Meritor.com>
Sent: Wednesday, April 17, 2013 1:25 PM
To: James Peeples
Cc: Jeff DeLaet
Subject: RE: Grenada - Indoor Air

Categories: Filed by Newforma

Thanks – it's clear to me now.



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From: James Peeples [mailto:JPeebles@tandmassociates.com]
Sent: Wednesday, April 17, 2013 1:45 PM
To: O'Connor, David A.
Cc: Jeff DeLaet
Subject: RE: Grenada - Indoor Air

Dave,

We have no monitoring points beneath the plant to make that type of definitive argument. The best we could do is project lines beneath the plant We have instead used another line of circumstantial evidence provided by groundwater that has traveled beneath the plant and is monitored downgradient of the plant. I think that is our strongest argument with the data we have. We did not use data from wells that are sidegradient of the plant, because we do not see these as representative of the groundwater that was or currently is beneath the plant. It is just fortuitous that the downgradeint data, from the standpoint of CVOCs shows a very clear declining trend in groundwater concentrations that we think is the best evidence available for the decline in concentrations beneath the plant over time. I do not think we have evidence at this point that the sidegradeint wells should be considered relevant in this evaluation. However, if we were to draw isoconcentration maps, it would be difficult to ignore the sidegradient wells and I have felt that this would weaken the argument that we are presenting. I have not drawn these through the history of our data set to clearly show this and I can do this to see if it strengthens or weakens our case, but to this point I have been skeptical that it would.

One other item that I forgot to include in the last email regarding the isoconcentration maps that Stantec is providing for Moose Lodge. Given that they have a long history of drawing these without dashed lines and essentially showing very similar contours over time, it may not be good to change that approach at this time, or at least not change it all at once. For example, if they are going to dash lines, they should carefully look at all places where they do not have closure on the data set and dash all of these areas. Also, they should continue to draw the overall surface as they have in the past and make only minor changes over time to pull some of the lines in closer where there is no data to support the current positions.

I am available (by cell phone) for a call to discuss the IA issues in more detail most of this afternoon.

Thanks,

James Peeples, PE

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From: O'Connor, David A. [mailto:David.OConnor@Meritor.com]

Sent: Wednesday, April 17, 2013 11:46 AM

To: James Peeples

Cc: Jeff DeLaet

Subject: RE: Grenada - Indoor Air

Jim:

How do we argue that potential indoor air impacts from groundwater today have decreased if concentrations beneath the plant have NOT decreased significantly??



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From: James Peeples [mailto:JPeebles@tandmassociates.com]

Sent: Wednesday, April 17, 2013 11:16 AM

To: O'Connor, David A.

Cc: Jeff DeLaet

Subject: RE: Grenada - Indoor Air

Dave,

I like the time series approach used in these. I am not sure what report these appeared in, but they might be helpful at this time in showing the transient nature of the north flow direction observed for the last quarter. I still like the concept of using average water levels over a period of time (one year or even two years to develop a "net" groundwater pot surface and flow direction. The two together would bolster the case that flow to the north/ northeast is transient and insignificant in the overall site flow system.

We can do something similar to the concentration contour plots for the gw plume at the plant, but it may weaken rather than bolster the IA case. I think we are better off with time series plots of concentrations in downgradient wells. If I go to contour plots I have to pull in the side-gradient wells at the EQ Basin and these have not shown significant declines during the period of indoor air sampling.

Let me know what you think.

Thanks,

James Peeples, PE

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From: O'Connor, David A. [mailto:David.OConnor@Meritor.com]

Sent: Wednesday, April 17, 2013 10:58 AM

To: James Peeples

Cc: Jeff DeLaet

Subject: Grenada - Indoor Air

Jim:

I remember now that you were going to show a time-series of VOC isocontours for the subject paper – correct? Attached are some examples we developed for Moose Lodge (note the GW series too for reference concerning our other discussions of the Main Plant).



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